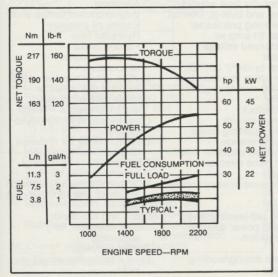


210C BACKHOE LOADER



ENGINE PERFORMANCE



^{*}Depending on operating variables

FEATURES

55 SAE net hp (41 kW)

Backhoe digging depth (SAE) 14 ft. (4.27 m) Unitized frame - pin-on backhoe Isolated engine and operator's station Walk-in front entry **Designed-in quietness** Open-center hydraulic system O-ring face seal hydraulic plumbing Weight distributed for working stability Self-adjusting hydraulic wet-disk brakes Inboard planetary final drives synchronized

Transaxle 1st and 2nd collar shift, 3rd and 4th

Full-power-shift reverser

Torque converter

Single-lever loader control

Two-lever backhoe control

Two-lever stabilizer control with anti-drift lockouts

Multi-adjustable swivel seat

Hydrostatic power steering

Optional soundproofed cab w/integral ROPS/ FOPS

Vandal protection w/built-in locks

ADD VERSATILITY WITH:

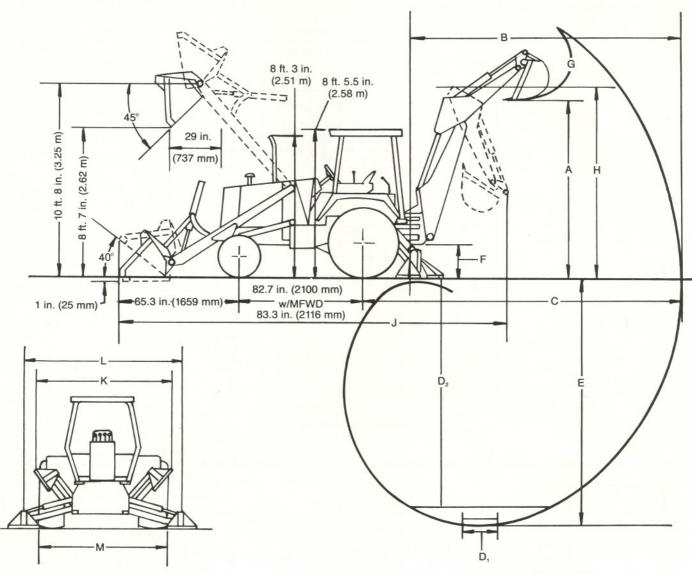
Mechanical front-wheel drive with: Offset driveshaft for better ground clearance

Extendable dipperstick

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE Standards. Except where otherwise noted, these specifications are based on a unit with 14.9-24, 6 PR, R4 rear tires; 7.50-16, 10 PR, F3 front tires, 0.88 cu. yd. (0.67 m³) loader bucket, 24-in. (610 mm) standard-duty backhoe bucket, ROPS/FOPS, full fuel tank, 175 lb. (80 kg) operator and standard equipment.

tank, 175 lb. (80 kg) operator and standard equipment.	
Rated Power @ 2200 rpm: SAE DIN 70 020 Net	Hydraulic Cylinders: Bore In. (mm) Stroke In. (mm) Rod In. (mm) Loader boom (2) 2.76 70 30.8 782 1.77 45
Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel @ 35 API gravity. No derating is required up to 6000 feet (1800 m) altitude. Gross power is without cooling fan.	Loader bucket (1) 2.76 70 28.1 715 1.75 40 Backhoe boom (1) 3.94 100 34.9 886 1.97 50 Backhoe crowd (1) 3.54 90 33.0 838 1.77 45
	Backhoe bucket (1) 3.15 80 31.0 788 1.77 45 Backhoe swing (2) 3.15 80 27.4 226 1.77 45 Backhoe extendable
Engine: John Deere 4-239D Type	dipper (1) 2.50 64 48.0 1220 1.25 32 Backhoe stabilizers (2) 3.54 90 15.5 394 1.77 45 Steering (1) regular
No. of cylinders	axle 2.00 51 9.5 241 1.00 25 Steering (1) MFWD 2.00 51 12.6 320 1.00 25
20 percent torque risé Cooling fan	Tires: Front Rear
Compression ratio	7.50-16, 10 PR, F3 14.9-24, 6 PR, R4
Lubrication Pressure system w/full-flow filter and cooler	11L-15, 8 PR, I-1A 16.9-24, 6 PR, R3
Main bearings5Air cleanerDryElectrical system12 volt	17.5L-24, 8 PR, R4 MFWD
Alternator	Wheel Treads:
	Front
Torque Converter:	Rear
Single stage, dual phase, overrunning stator, 11-in. (280 mm) diameter, stall torque ratio 2.78:1	MFWD—Front 68 in. (1730 mm) —Rear 62 in. (1575 mm)
Reverser: Modulated, full-power shift with multiple wet-disk clutches. Re-	Wheelbase 82.7 in. (2100 mm) w/MFWD 83.3 in. (2116 mm)
verser operating lever at left of steering wheel.	Axle Ratings: Static Rating Dynamic Rating SAE J43
Transmission:	Front
Manual shift with first and second speeds having sliding collar	(16 500 kg) (16 500 kg) (4000 kg) Rear 41,100 lb. 54,800 lb. 11,500 lb.
engagement and third and fourth speeds engaged with cone-type synchronizers. Single shift lever, floor mounted.	(18 700 kg) (24 900 kg) (5300 kg)
Forward Reverse	Capacities: U.S. Liters
Travel Speeds: Gear mph (km/h) mph (km/h)	Fuel tank
With standard 14.9-24 1 3.3 5.3 3.2 5.2	Engine coolant
rear and 7.50-16 2 5.6 9.0 5.5 8.9 front tires 3 12.0 19.3 11.9 19.2	Torque converter and reverser system 8 qt. 7
4 21.9 35.2 21.8 35.1	Hydraulic system
With MFWD and 16.9-24 1 5.4 8.7 5.3 8.5	
(required) rear and 12.00- 2 5.7 9.2 5.6 9.0	Additional Standard Equipment:
16.5 front tires 3 12.3 19.8 12.2 19.6 4 22.4 36.1 22.3 35.9	Air cleaner restriction indicator Monitor for:
Final Drives	Air cleaner, dry type w/safety element and built-in, internal, Engine coolant temperature
	self-cleaning precleaner Engine coolain temperature
Service Brakes: Hydraulic, applied with separate pedals; hydraulically equalized when both pedals are depressed. Wet disks and facings are fully enclosed and self-adjusting.	Alternator, 51-amp w/ Hydraulic filter transistorized voltage Parking brake
Secondary Broker Mechanical "\" average hand leasted as differ	regulator Torque converter Antifreeze to -34°F (-37°C) temperature
Secondary Brake: Mechanical "V" groove band located on differential ring gear	Backhoe boom transport lock Muffler, above hood w/vertical
onia mg goal	Battery, 110-minute reserve exhaust and deflector capacity Multiple fuse protected
Steering: Hydrostatic power	Differential lock electrical system—12 volt
Steering axle, regular:	Electric fuel shutoff Oil-to-air cooler for hydraulic
Turning radius (brake applied)	Emergency/parking brake system
Steering wheel turns, left to right	Engine side shields Oil-to-air cooler for reverser/ torque converter system
right to left 2.9	Foot and hand throttles Rear fenders
Axle oscillation stop to stop	Fuel gauge Rear reflectors
Mechanical front-wheel drive (engaged):	Fuel tank sump w/easy access ROPS/FOPS canopy, isolation
Turning radius (brake applied)	drain mounted, with roof and seat Hourmeter belt
Steering wheel turns, left to right	Hourmeter belt Hydraulic self-leveling loader Steps and handholds
right to left 2.8	Hydrostatic power steering Swivel vinyl seat, fully
Axle oscillation stop to stop	Key start switch adjustable
Hydraulic System: Open-center	Lights: Torque converter Halogen driving/working Vandal protection w/built-in
Pressure, main relief 2500 psi (17 238 kPa) (175.8 kg/cm²)	lights locks
Pump	Taillight
Flow @ 2200 rpm	Loader bucket level indicator
	SAE Operating Weight 10,500 lb. (4723 kg)

210C BACKHOE LOADER SPECIFICATIONS AND DIMENSIONS



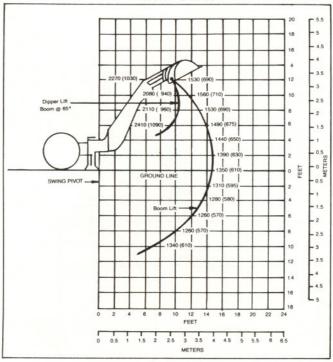
M	D,		
	Extendable Dipperstick		
Key: Backhoe	Retracted	Extended	
A. Loading height, truck loading position	10 ft. 8 in. (3.25 m) 17 ft. 3 in. (5.26 m) 20 ft. 6 in. (6.25 m)	12 ft. 4 in. (3.76 m) 20 ft. 11 in. (6.38 m) 24 ft. 2 in. (7.37 m)	
(1) 2-ft. (610 mm) flat bottom	13 ft. 9 in. (4.19 m) 12 ft. 7 in. (3.84 m) 14 ft. (4.27 m) 11 in. (282 mm) 160/179 degrees 11 ft. 5 in. (3.48 m) 23 ft. 3 in. (7.09 m) 6 ft. 7 in. (2.00 m) 7 ft. 4 in. (2.23 m) 8 ft. 5 in. (2.57 m) 9 ft. 1 in. (2.77 m) 75 in. (1905 mm)	17 ft. 8 in. (5.39 m) 16 ft. 9 in. (5.11 m) 17 ft. 9 in. (5.41 m) 11 in. (282 mm) 160/179 degrees 11 ft. 5 in. (3.48 m) 23 ft. 3 in. (7.09 m) 6 ft. 7 in. (2.00 m) 7 ft. 4 in. (2.23 m) 8 ft. 5 in. (2.57 m) 9 ft. 1 in. (2.77 m) 75 in. (1905 mm)	
Digging force, bucket cylinder (power dig position) Digging force, crowd cylinder Swing arc Operator control Bucket positions Stabilizer angle rearward Lifting capacity, maximum, boom @ 65° Leveling angle—(fixed foot) (power decorated) 1000 (42.7 kN) (4355 kg) 1000 (23.1 kN) (2360 kg) 2400 lb. (1090 kg) 1000 (1090 kg) 11 degrees	9610 lb. (42.7 kN) 4359 kg) 5200 lb. (23.1 kN) (2360 kg) 180 degrees Right foot treadle 19 or 28 deg. rollback 12 degrees 2200 lb. (1000 kg) 8.5 degrees 11 degrees	9600 lb. (42.7 kN) (4355 kg) 3510 lb. (15.6 kN) (1590 kg) 180 degrees Right foot treadle 22 or 32 deg. rollback 12 degrees 1370 lb. (620 kg) 8.5 degrees 11 degrees	

Note: Backhoe specifications are with 24-in. (610 mm) standard bucket

210C BACKHOE LOADER LIFTING CAPACITIES

Lifting Capacity Ratings made from bucket hinge pin, loader bucket and stabilizer on firm, level ground. Lifting capacities are 87 percent of the maximum lift over any point on the swing arc and do not exceed 75 percent of the tipping load. Angle between boom and ground at 65 degrees. Machine equipped with 24-in. (610 mm) trenching bucket, standard or optional dipperstick (as indicated below) and standard equipment.

Lift Capacity Backhoe with standard dipperstick. Based on SAE J31.



Rated lift capacities are in lb. (kg) Lift capacities are hydraulically limited.

Lift Capacity

Backhoe with extendable dipperstick, retracted.

Based on SAE J31.

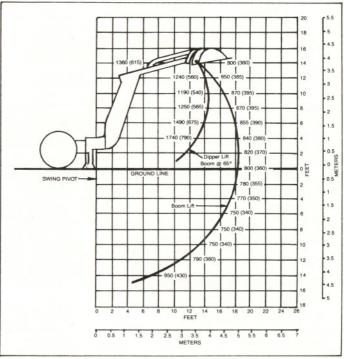
| 180 (850) | 1380 (815) | 12 | 1380 (815) | 12 | 1380 (815) | 12 | 1380 (815) | 12 | 1380 (815) | 12 | 1380 (815) | 1380 (815) | 10 | 2.5 | 12 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815) | 10 | 1380 (815)

Rated lift capacities are in lb. (kg) Lift capacities are hydraulically limited.

Lift Capacity

Backhoe with extendable dipperstick, extended.

Based on SAE J31.



Rated lift capacities are in lb. (kg) Lift capacities are hydraulically limited.

210C BACKHOE LOADER

LOADER:

TOTAL TITLE
Operator control Single lever Rollback at ground level 40 degrees
Breakout force
Digging depth below ground,
bucket level
Lifting capacity, full height 4700 lb. (2140 kg)
Height to bucket hinge pin, max 10 ft. 8 in. (3.25 m)
Height to top of canopy 8 ft. 5.5 in. (2.58 m)
Height to top of muffler
Bucket dump angle, max
Dump clearance, bucket @ 45 degrees 8 ft. 7 in. (2.62 m)
Reach at full height, bucket @ 45 degrees 29 in. (737 mm)
Raising time to full height
Bucket dump time1.1 sec.
Bucket lowering time (power down) 2.8 sec.

В	UCKETS		
Width		Heaped Capacity	
In.	(mm)	Cu. Yd.	(m³)
81 89	(2057) (2260)	0.88 1.0	(0.67) (0.76)
		Cu. Ft.	(m³)
12 16 18	(305) (407) (457)	2.5 3.6 4.1	0.07 0.10 0.12
30 36	(762) (914)	7.9 9.9	0.17 0.22 0.28
18 24 24	(457) (610) (610)	4.1 6.0 7.5	0.12 0.17 0.21
	In. 81 89 12 16 18 24 30 36 18 24	In. (mm) 81 (2057) 89 (2260) 12 (305) 16 (407) 18 (457) 24 (610) 30 (762) 36 (914) 18 (457) 24 (610)	Width Capaci In. (mm) Cu. Yd. 81 (2057) 0.88 89 (2260) 1.0 Cu. Ft. 12 (305) 2.5 16 (407) 3.6 18 (457) 4.1 24 (610) 6.0 30 (762) 7.9 36 (914) 9.9 18 (457) 4.1 24 (610) 6.0

Optional or Special Equipment:

Automatic return-to-dig Backup alarm Cab pressurizer Cab with:

Fabric-covered swivel seat, suspension or non-suspension

Front defroster fan

Front defroster fan
Front and rear wipers
Integral ROPS/FOPS
Standard heater—19,000 Btu/hr (5.6 kW)
Cold-weather starting aid, remote mounted
Deluxe cab interior trim package
Deluxe heater w/fresh air intake—40,000 Btu/hr (11.7 kW)
Economy seat, vinyl covered, suspension or rigid mounted
Engine coolant heater
Extendable dipperstick for backhoe
Fire extinguisher

Fire extinguisher

Front counterweight

Heavy counterweighted front axle Heavy-duty batteries

Horn

Instrument panel vandal cover Lights:
Front rear turn signal lights
Rear brake lights
Rear halogen work lights
Rotating beacon light

Mechanical front-wheel drive

Rear defroster fan Rearview mirror, inside mounted, curved, heavy-duty Rear wheel spacers for tire chain clearance Reversible stabilizer pads

Tachometer/hourmeter

Three-point hitch w/single or four function hydraulics SMV emblem
Stabilizer w/pivoting feet
3-in. (76 mm) seat belt

Three- or four-lever, pedal-swing backhoe controls

Toolbox

Additional Available Equipment:*

Auxiliary bolt-on cutting edge for loader buckets Auxiliary hydraulic valves and circuit for loader and backhoe Backhoe lift eye Bolt-on teeth for loader bucket Floor mat

Front counterweight, extra (side mounted) Front windshield and door kit

Crille guard
Lateral slides for operator's seat
Loader bucket chain hooks, outer
Light materials/snow loader buckets
MFWD drive shaft guard

Multipurpose loader buckets Quick-hitch backhoe bucket system Quick-hitch loader bucket system

Radio or radio cassette Special paint

*See your John Deere dealer for further information